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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/941,478	08/29/2001	Jens Roever	US018133	6468
. 75	90 08/13/2004		EXAMINER	
Corporate Patent Counsel			CHOI, WOO H	
U.S. Philips Con	rporation		ART UNIT	PAPER NUMBER
Tarrytown, NY			2186	
			DATE MAILED: 08/13/200	4

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	09/941,478 ROEVER, JENS		
Office Action Summary	Examiner	Art Unit	
	Woo H. Choi	2186	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet	vith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, and the period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by some Any reply received by the Office later than three months after the rearned patent term adjustment. See 37 CFR 1.704(b).	DN. R 1.136(a). In no event, however, may a n. a reply within the statutory minimum of the priod will apply and will expire SIX (6) MC tatute, cause the application to become a	reply be timely filed irreply be timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
Status			
 1) ⊠ Responsive to communication(s) filed on 2 2a) ☐ This action is FINAL. 2b) ⊠ 3) ☐ Since this application is in condition for allocation accordance with the practice under the condition of the con	This action is non-final. Dwance except for formal ma		
Disposition of Claims			
4) ☐ Claim(s) 1-16 is/are pending in the application 4a) Of the above claim(s) 1-8 is/are withdrays. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 9-11 and 13-16 is/are rejected. 7) ☐ Claim(s) 12 is/are objected to. 8) ☐ Claim(s) are subject to restriction and	awn from consideration.		
Application Papers			
9) The specification is objected to by the Exar 10) The drawing(s) filed on 29 August 2001 is/a Applicant may not request that any objection to Replacement drawing sheet(s) including the co	are: a)⊠ accepted or b)⊡ of the drawing(s) be held in abey rrection is required if the drawin	ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
 12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority documents. 2. Certified copies of the priority documents. 3. Copies of the certified copies of the application from the International But * See the attached detailed Office action for a second content. 	nents have been received. nents have been received in priority documents have bee ireau (PCT Rule 17.2(a)).	Application No n received in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SI Paper No(s)/Mail Date	Paper No	Summary (PTO-413) o(s)/Mail Date Informal Patent Application (PTO-152)	

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 9, 10 and 13 15 are rejected under 35 U.S.C. 102(e) as being anticipated by Kamijo (US Patent No. 6,772,280).
- 3. With respect to claims 9 and 13, Kamijo discloses a buffer management system for controlling access to a buffer (figure 9), comprising a buffer manager that is configured to assert a wrap signal when a first access to the buffer is non-sequential (figure 2, figure 5, when an input data is same as the prior entry, the count section of the prior entry is incremented, i.e. "wrap signal", resulting in a non-sequential access since the access is to the same location as the prior entry location), and is further configured to limit a second access to the buffer in dependence upon the wrap signal (figure 7, the number of times the repeated entry is to be accessed is limited by the count, the read access is also limited to the block address of the last prior entry).

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- 4. With respect to claim 10, the first access to the buffer includes an access that is based on a block address (address of the preceding entry) and an offset address (0 or 1 depending on whether the data is repeated), and the second access to the buffer is limited to the block address when the wrap signal is asserted (read access is limited to the address of the preceding entry when the "wrap signal" or the count is not zero), and is limited to a combination of the block address and the offset address when the wrap signal is deasserted (if the new entry is not the same as the preceding one, the count is zero and the read access is extended by 1, the offset address).
- 5. With respect to claim 14, Kamijo discloses a method of controlling access to a buffer (figures 2, 5 and 7) comprising:

determining a block address and an offset address (figure 5, S14, block address is the same as the last entry's if same as preceding data and the offset is 0) corresponding to a first access to the buffer, determining when the offset address is non-sequential relative to the block address, and limiting a second access to the buffer to the block address when the offset address is non-sequential (read access is limited to the last entry).

6. With respect to claim 15, the method further includes:

determining when the offset address is sequential relative to the block address (figure 2, and figure 5, S15, if different from preceding data, a new entry is created sequentially), and limiting the second access to the buffer to a combination of the block address and the offset address when the offset address is sequential (figure 7, S25).

7. Claim 14 is rejected under 35 U.S.C. 102(e) as being anticipated by Garcia *et al.* (US Patent No. 6,145,061, hereinafter "Garcia").

Garcia discloses a method of controlling access to a buffer (figure 6B, and 6D) comprising:

determining a block address (94, Qbase) and an offset address (96, Head Offset) corresponding to a first access to the buffer, determining when the offset address is non-sequential relative to the block address (offset is 0), and limiting a second access to the buffer to the block address when the offset address is non-sequential (read access is limited to the head pointer).

Claim Rejections - 35 USC § 103

- 8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 11 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kamijo in view of Mannion (US-6,553,448).

Kamijo discloses all of the limitations of the parent claims as discussed above. However, Kamijo does not specifically disclose that a change of limit of the second

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access is communicated via a gray-code sequence. On the other hand, Mannion discloses the use of gray code to change the access limit (col. 4, lines 53 - 56).

It would have been obvious to one of ordinary skill in the art, having the teachings of Mannion and Kamijo before him at the time the invention was made, to use the gray code teachings of buffer control system of Mannion in the buffer control system of Kamijo, so that the uncertainty error of the encoded pointer index values can be limited to at most the previous index location (col. 5, lines 4-6)

Allowable Subject Matter

9. Claim 12 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Qureshi (US Patent No. 5,974,516) discloses a buffer management system with non-sequential access and an associated signal. Shaler et al. (US Patent No. 6,625,440) disclose a memory management system with non sequential write access and sequential read access.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Woo H. Choi whose telephone number is (703) 305-3845. The examiner can normally be reached on M-F, 8:00-4:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matt Kim can be reached on (703) 305-3821. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

whc August 6, 2004

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